

FTECH - PORE TT PLEATED MEMBRANE CARTRIDGE

Ftech-Pore TT Microfiltration cartridges have been specifically designed for use in corrosive gases and liquid processing applications. A naturally highly hydrophobic PTFE membrane and fluoropolymer structure makes this the cartridge of choice where high resistance to aggressive fluids is required.

Product features

- A naturally hydrophobic PTFE membrane
- 100% Fluoropolymer construction
- Extremely low flush requirements in high purity applications
- Excellent chemical compatibility
- Materials meet the requirements of 21 CFR Part 177 and current USP Plastic Class VI -121°C tests
- Fully integrity testable by bubble point or diffusion flow test
- Operational temperature up to 150°C

All cartridges are thermally bonded and adhesive free. Each unit is pre-flushed with ultra pure water and integrity tested before final assembly.

Available in a range of absolute rated pore sizes:

- 0.05µm
- 0.1µm
- 0.2µm
- 0.45µm
- 1.0µm

Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents. Filtertechnik Filters manufacture a comprehensive range of filter housings for FTECH-Pore TT cartridges including the industrial 50 and 60 Series and the 70 Series for hygienic applications, in 316 Stainless Steel. Other housings are available using Fluoropolymer coatings. Please consult our Sales Office for further details on the full range.

Ftech-Pore TT FEATURES AND BENEFITS

- Full Fluoropolymer construction
- Validated* removal ratings for consistent and reliable performance
- Capable of high temperature operation for extended periods
- High chemical resistance to most oxidising agents, solvents, acids and alkalis
- Identification mark on every cartridge
- Full product guide available

*See product validation guide for further details stating test method and rated efficiencies



TECHNICAL DATA

Dimensions

Outside Diameter: 70mm
 Typical Surface Area: 0.63m² (Per 10")
 Length: see ordering guide

Sterilisation and Sanitisation*2

Steam or Autoclave: 142°C for 30 minutes (up to 30 cycles)

*2 During Steam in place (SIP), the differential pressure across the cartridge should not exceed 0.30 bar at 142°C

Maximum Operating Conditions

Temperature: 150°C

Recommended Maximum Differential Pressure:

Forward Flow: 5.5 Bar @ 24°C
 3.8 Bar @ 75°C
 2.0 Bar @ 125°C
 1.0 Bar @ 150°C
 Reverse Flow: 3.4 Bar @ 24°C

Recommended change-out differential pressure 2.5 Bar

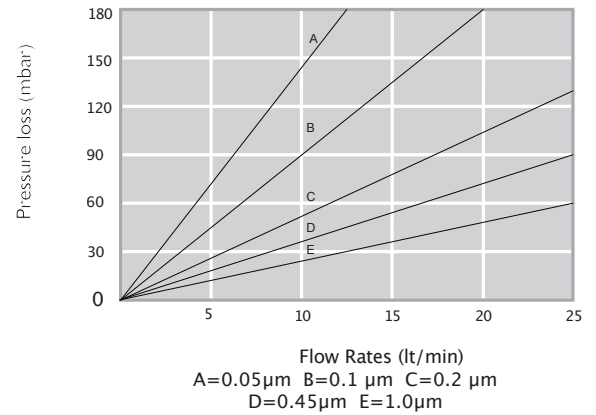
The operating conditions above should be treated as maximum differential pressures for short term use without causing cartridge collapse problems

Standard Materials of Construction

Filter media: Polytetrafluoroethylene (PTFE)
 Media Support: PTFE
 End Caps: PFA
 Cages/Core: PFA

Product validation guide available on request. All FTECH-Pore TT cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

Flow rates for Water (10" Element)



Integrity Test Specification

Micron Rating	Minimum Bubble Point In 60/40 IPA/Water	Diffusion Flow (cc/min/10") In 60/40 IPA/Water
0.20µm	≥ 1000mBar	≤ 16.5 @ 800mBar
0.45µm	≥ 480mBar	≤ 50 @ 350mBar

Industries and applications

- **Food and Beverage:** Ozonated Water
- **Pharmaceutical:** Sterile filtration of API's and final solutions
- **Fine Chemicals:** Solvents, chemicals, high temperature air/gas
- **Electronics:** Ultra pure water, photolithography chemicals